

Reagan says U.S. is 'under attack'

Urges boycott of countries that do not condemn TWA hijacking

WASHINGTON (AP) — President Reagan, declaring that the United States is "being attacked by international terrorists who wantonly kill," urged Americans on Tuesday night to steer clear of countries in the Middle East that do not condemn the seizure of the TWA airliner and its passengers.

At a nationally broadcast news conference, his first in almost three months, Reagan announced a series of steps to promote safety of Americans traveling abroad. He also called "without condition" for the release of the almost 40 Americans held captive in undisclosed locations in Beirut. "America will never make concessions to terrorism. . . . I do so will only invite more terrorism," the president vowed.

Reagan directed members of his Cabinet to consider cutting more U.S. sky marshals on international flights

and to study halting American service to Athens, where the armed hijackers boarded Trans World Airlines Flight 847 last Friday.

He also advised American citizens against traveling through the Athens airport or to "any country that does not . . . publicly condemn this atrocity."

"I'm as frustrated as anyone," Reagan said of the situation. "I've pounded a few walls myself, when I'm alone, about this. It is frustrating. . . . You have to be able to pinpoint the enemy. You can't just shoot shooting without having someone in your gun sights."

Despite his stern demeanor and insistence on a prompt release of the hostages, the president acknowledged he was frustrated and was inhibited from taking strong action in retaliating now.

To do so, he said, would amount to "sentencing a number of Americans to death."

Reagan, noting that only an hour earlier, the body of slain Navy Petty Officer Robert D. Stethem, 23, had been returned home, told the national audience: "It underscores the inescapable fact the United States is a nation tonight being attacked by international terrorists who wantonly kill."

Asked if he would accept any solution to the 5-day-old crisis that would not free seven Americans kidnapped earlier in Lebanon, Reagan responded: "We cannot give up on them. . . . It is an extremely difficult, seemingly impossible task. . . . No, we haven't given up on them. Among those kidnapped is Terry Anderson, chief Middle East correspondent of The Associated Press."

Nabih Berri, the Shiite Moslem leader who has been

playing a key role in the drama, said earlier Tuesday that if Israel released some 700 Shites held near Haifa that hostage-taking would be solved within 24 hours.

Reagan said, however, that "we have not dealt with them on that. . . . We have not interfered."

Under questioning, he said he thought Israel had violated the Geneva convention by taking the Shites from Lebanon as Israeli forces withdrew.

Reagan was asked if he would hold Berri responsible if he turned the hostages back to their original captors.

"Yes, I would," he replied.

Berri is the justice minister in the Lebanese government. On Monday, he ordered the passengers moved from the airliner to secret locations in Lebanon. Subsequently, he said he would return them to the custody of the hijackers if Israel refused to meet the hijackers' demand.

THE UNIVERSE

Call in news tips to 378-3630; other calls 378-2957

Brigham Young University Provo, Utah

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Shiite skyjackers free three hostages but retain 40 others

BEIRUT, Lebanon (AP) — Shiite Muslim hijackers freed two Americans and a Greek folk singer Tuesday, but kept about 40 American hostages in Beirut.

Monday, one gunman on the plane told the Beirut control tower that if no progress in the negotiations was achieved by early Wednesday, he would demand refueling, fly the explosive-rigged aircraft to Israel and lock it up over Tel Aviv, an air traffic controller said.

Shortly afterward, the control tower intercepted a radio communication from the headquarters of the Shiite militia in Lebanon, which has taken custody of the hostages — in which the gunman was sternly ordered to "stop his nonsense and childish games. You are not to make any such threats."

Piecemeal release
The Reagan administration called the piecemeal release of the hostages "unethical behavior in its worst form." It said the continued captivity blocks Israel's plan, announced before the WA jet was seized last Friday, to free the Shiite prisoners free in stages. Nabih Berri, who is chief of the Shiite militia Amal and has taken charge of the negotiations, said all hostages were taken off the Boeing 747 and were being held in small groups in the Shiite enclaves of west Beirut.

However, Berri's chief spokesman, Ali Hamdan, later said the three crew members returned to the plane. An airport official said the control tower had spoken during the evening with the pilot, John L. Testrake of Richmond, Mo.

Those released Tuesday were singer Demis Roussos, his American secretary Pamela Smith, and Arthur N. Targontsidis, 18, of Brockton, Mass., who has been a student in Greece.

They were turned over to the Greek ambassador during a news conference at Berri's sandbagged home in war-torn west Beirut and boarded a ship later for Larnaca, Cyprus.

Responsibility for hostages
Berri said in French that he has taken responsibility for the hostages, but if Israel does not free the Shiite prisoners, then "I, as a mediator, will wash my hands of the case."

When asked if that was a deadline, he responded in English: "When I see nobody obey (respond) to me, then I take my hands off."

He said the hijack drama would "be finished in 24 hours" if the Israelis freed the Shiite prisoners.

State Department figures indicate about 40 Americans still are held, including as many as a dozen with "Jewish-sounding" names who were reported taken off the plane during an earlier stop in Beirut. Berri also said the remaining hostages number "about 40."

Asked about the "American Jews," Berri said: "I do not have this information. There are no American Jews. There are American people."

Two young Shiite gunmen seized TWA Flight 847 soon after it left Athens, Greece, last Friday for Rome and Boston with 153 people aboard. Most were freed during previous stops in Beirut and Algiers. The hijackers killed one passenger — U.S. Navy Petty Officer Robert Dean Stethem, 23, of Waldorf, Md.

At least a dozen other armed Shites joined the hijackers aboard the plane.

Berri says the hijackers are not members of his Amal militia, but he agrees with their demands.

Captured Shites
The hundreds of Shites whose release is demanded were captured by Israel during its withdrawal from south Lebanon, on grounds that they either plotted or carried out attacks on Israeli units.

Regarding Israel and the fate of the Shites, White House spokesman Larry Speakes said:

"We do not ask them to proceed until our people are released. We're simply saying, 'You release our prisoners and Israel, in our opinion, will go ahead. You're simply holding it up, fella.'"

He said the Reagan administration would prefer that the Shites be freed all at once if the hostages were released.



Universe photo by Dave Siddaway

Only 2,000 more miles to go!

Stan Cottrell, second from right, and three Chinese long distance runners passed through Provo on Tuesday on their way across the U.S. in a 3,600 mile relay run. Cottrell thought up the idea of "The Great Friendship Run" in the hope that it would foster good will between the U.S. and China.

Discovery's crew launches Saudi Arabian satellite

CAPE CANAVERAL, Fla. (AP) — Discovery's astronauts launched a communications satellite Tuesday for an Arab world so volatile that the device required safeguards to stop any one country from sending unwelcome messages to another.

With a Saudi Arabian prince-astronaut as an enthusiastic observer, the Arabast satellite spun flawlessly out of the shuttle's cargo bay after giving a false indication that one of its solar panels had opened prematurely, a condition that would have prevented launch.

"Very, very good job," said Prince Sultan Salman Al-Saud. "It never

looked better. As a matter of fact, it looked much better than the Morelos deployment."

The Morelos-A satellite was deployed Monday to provide communications for Mexico, giving the astronauts an orbit-delivery score of two down and one to go. A satellite for AT&T is scheduled for release today.

When it is in operation, Arabast will serve as a space switchboard for telephone and data transmission and for regional and community television for 22 Arab League members, including the Palestine Liberation Organization and such countries as Libya,

and Syria and Iraq, who are bitter enemies.

"We have a board of directors and we have a general assembly," said Arabast director Ali Al-Mashat. "Palestine is represented there as one of the members." He said the league recognizes the PLO as the legal representative of Palestine, which he says is paying only two-tenths of one percent of the total cost of the satellite operation.

The PLO lays claim to Palestine, the land now shared by Israel and Jordan. In its covenant, the organization is committed to the overthrow of the Jewish state.

Tax collection decision creates budget excess

by BRACH SCHLUETER
Universe Staff Writer

Utah County's decision Monday to increase the charge for district and school districts for the collection of taxes / only 10 percent has left Alpine school board officials at a pleasant, but potentially dangerous political decision — what to do with an extra \$260,000.

That is approximately the unclaimed lump sum sitting in the district's budget since the county's revision. When it was earlier announced by county commissioners that the full cost for the assessing and collecting of these taxes would be passed on to county cities and school districts, Alpine took steps to incorporate that cost into its 85-86 budget — a budget that board officials said had been trimmed to the bone since the levy defeat in May.

And although the increase in Alpine's budget to cover is cost amounted to only .24 mill, or about \$2.52 annually for \$70,000 home, board members were concerned about the district patrons would live the increase.

In fact, board members said, at last week's budget meeting, they resented the way the state had put them in the position of having to raise taxes.

In responding to the county's decision to revise the increase, district Superintendent Dr. Clark Cox said he was happy about the reduction, but wasn't sure what that, if any, the district would take.

Dr. Charles Lloyd, clerk/treasurer for the district, said the district has no assurance the county will not raise the election fee next year, and for that reason might consider a good idea to let stand the extra .24 mill.

This is already the third notice of a change in the election fee this year," Lloyd said.

If the county cut or reduced the .24 mill from its budget

this year and then had to raise taxes next year for another county increase, it would be a much more difficult and expensive task, he said. The district's bill this year with the county for assessing and collecting taxes is \$332,000.

To raise taxes next year, a new state law requires that school districts send notices of the increase to every taxpayer in the district and place ads in newspapers announcing the action — all at great expense to the district.

This is the first time the district has ever raised taxes to cover the cost of these collections, but this year the district had no choice in the matter, Lloyd said. "In the past we have always had to cut programs to pay this bill."

Lloyd praised commissioners for their action in reducing the fee. "Some counties have not reduced the fee at all."

Although the .24 mill increase was placed into the district's maintenance and operation fund, used for supplies and other educational needs, Michael Robinson, public information officer for the district said the figures are deceiving. "We have no more resources than we've ever had for the educational purposes of the district."

Ray Graham, a member of the district's public involvement committee agrees that the district needs money, but says it (the district) would be foolish not to give the money back because the tax came in direct response to the county's action to charge the district. Therefore, it would be unfair and not healthy for the district's public image should board members opt to keep the money.

Speaking for the teachers on the situation, Ardy Greening, president-elect of the Alpine Education Association and chairperson for the teachers' negotiating committee, said she would prefer to see the district leave the money in the budget.

Church makes attempt to regain ownership of land in American Samoa

by TOM WALTON
Universe Reporter

The Church of Jesus Christ of Latter-day Saints has filed suit in District of Columbia District Court against S. Secretary of the Interior Donald Model.

The suit came about over a question of ownership of 360 acres of land in American Samoa.

Papers filed with the district court said the LDS Church purchased a 300-acre portion of land in the Samoan territory of Maunaloa on May 29, 1933. It had been leasing the land since 1906. The land was purchased from Salatinia Salatin, who had been judged the individual owner of the property by the Samoan High Court in 1931.

At the time of the purchase, the church said Samoan law prohibited non-Samoan land ownership, distinct from the

current law. The sale was known to the Interior Department and was approved by the Samoan legislature, land commission and the governor of American Samoa.

The church has built a chapel, schools and dormitories on the land while maintaining a farm and a plantation. On June 12, 1978, Tavete M. Pualoia filed a motion in the Samoan High Court to reopen the 1931 case that established ownership of the land. He argued the property was the common land of the Pualoia family, but the court denied the petition.

The church says members of the Pualoia family, after being rejected by the court, "began trespassing over and upon the church land, destroying fences and 'No Trespassing' signs, killing livestock, damaging property, planting crops and building structures."

The church filed a trespass action to prevent the Pualoias from access to the church property. However, in the process the High Court reopened the 1931 case and held in favor of the Pualoia family, saying the property was its common land. It ruled Salatinia had originally been awarded only a life interest in rents from the land, and her sale of the land in 1953 was not valid.

The High Court also ruled the church could not hold the land under any circumstances because Samoan law restricts land ownership to persons of the Samoan race.

On Jan. 31, 1985, the church appealed to the Secretary of the Interior to intervene and define the land ownership.

"The church requested him (Secretary of the Interior) to intervene, but his decision was not to intervene. He felt the situation was not within his range of authority," said

John Wright of the public affairs office of the Department of the Interior in Washington D.C.

The church maintains that as an American property, American Samoa is under the administrative jurisdiction of the Secretary of the Interior; and believes the High Court's action amounted to a deprivation and taking of private property without due process of law.

The present suit also charges ownership restrictions violated its civil rights and were racially discriminatory. The church claims the Samoan High Court is only an administrative court which operates under the control and supervision of the Secretary of the Interior and lacked the federal authority to review the 1931 case.

It requests the district court to declare the High Court decision void.

NEWS DIGEST

Surgeon must move to infested apartment

LOS ANGELES (AP) — A neurosurgeon has been ordered to move from Beverly Hills for 30 days to an apartment resembling a rat-infested flat he rents to a family of seven.

The judge in the case says he hopes the sentence will bring the doctor "contact with some sense of human decency."

The judge ordered Dr. Milton Avol to spend equal time in a clean jail cell and one of the garbage-strewn apartments he owns after he failed to significantly improve the buildings during 36 months' probation.

For three years, Ramona Mota, her husband and five children have squeezed into a four-room, four-floor apartment in a building owned by Avol on South Main Street, near the downtown garment district.

Rats, cockroaches, mosquitoes and flies have become almost like part of the furnishings, according to court testimony. "I set traps, but it doesn't do any good, because there are too many (rats)," Mrs. Mota, 28, said Tuesday through an interpreter.

The Motas said they pay \$268 a month for an apartment that lacks a reliable hot water supply, leaks when it rains, has a broken floor and requires sheets in the windows to keep the street dirt out.

Avol, who lives in Beverly Hills, was sentenced to spend 30 days at an even sorrier spot at one of his other complexes, also on the fringe of downtown, said Municipal Court Judge Veronica Simmons McBeth.

On Monday, she also ordered him to report for a 30-day jail term beginning Thursday. The day he is released, he will be escorted to an apartment about two miles away from Mrs. Mota's, McBeth said.

In 1983, Avol was convicted of violating health, fire and building and safety codes at four of his apartment complexes, but was given 36 months to bring the buildings into compliance with regulations.

McBeth was visiting Mrs. Mota's apartment building when "I started thinking what if he had to live here. Maybe it would make him come in contact with some sense of human decency," she said.

Woman was 'victim,' according to attorney

SALT LAKE CITY (AP) — An Arizona woman who helped place Mexican babies in U.S. homes was the victim of "sophisticated financiers" who took the profits and left her facing criminal charges in an illegal adoption scheme, her attorney contended Tuesday.

Martin Verhoef told a U.S. District Court jury in opening arguments that between 1976 and 1983, Deborah Rae Tanner helped place a number of Mexican children, who in some cases were abused and ill, "because she wanted to help others."

Tanner, 35, of Wilcox, Ariz., is charged with 19 counts of mail fraud and wire fraud in an indictment accusing her of helping to cheat 185 couples, mostly in Utah and Massachusetts, out of more than \$750,000.

Earlier Tuesday, Assistant U.S. Attorney Larry Leigh told the eight-man, four-woman jury that Tanner had not entered the adoption business with intent to defraud prospective parents. He said that as the years went by, a dearth of adoptable babies and increasing numbers of prospective parents led Tanner into a "robbing-Peter-to-pay-Paul" situation.

Sixth body unearthed at mountain compound

WEST POINT, Calif. (AP) — Investigators unearthed a sixth body Tuesday at a survivor's mountain compound where they already had found 45 pounds of charred human bones and clues to the fate of 22 people.

The "decomposing human remains" of the latest, unidentified victim were discovered buried in two feet of dirt, said Calaveras County Sheriff's Deputy Steve Mathews. The remains were found in an area where a 15-year-old boy said he dug a trench for survivalist Leonard Lake.

The sex, age and approximate date of death of the body were not immediately determined, Mathews said. There was no evidence of a bullet wound, as there had been on one of the five previous skeletal remains found, he said.

Investigators also poked through rubbish at a nearby dump site and found more bones, stained clothes, a license plate and other evidence they believe may be linked to Lake, who died June 6 after swallowing a poison pill while in police custody.

Authorities were uncertain whether the half a dozen large bones at the dump site were human, but wrapped them in plastic bags for analysis, said Mark Olenlager, investigator for the state Department of Justice.

About 15 young workers from the California Conservation Corps beat the brush around the dump in 100-degree heat and picked through debris.

Lake sold items belonging to some of the missing people at yard sales, sheriff's spokesman Jim Stenquist said. He said the

items included a typewriter and other office equipment. Stenquist asked residents who purchased items from Lake to contact authorities.

Authorities plan to demolish an alleged sexual torture cell to look for more bones in a 6-foot-deep cavity underneath, but only after an architect can make drawings of the concrete cell to build a scale model for court evidence.

Custody fight for son resulted in FBI alert

VIRGINIA BEACH, Va. (AP) — The daughter of accused Navy spy John A. Walker Jr. said Tuesday she decided to turn her father in to the FBI to keep her estranged husband from "blackmailing me" in a fight over custody of their 5-year-old boy.

Laura Walker Snyder, 25, of Canton, N.Y., an Army veteran who said her father never convinced her to join the family spy ring, he is accused of masterminding, acknowledged that she snatched her son from the lawn of her estranged husband's home over the weekend.

Meanwhile, two others accused of spying with John Walker, his older brother Arthur J. Walker and Navy friend Jerry A. Whitworth, pleaded innocent in arraignments in Norfolk, Va., and San Francisco.

Arthur Walker's court-appointed lawyer, Samuel Meekins, said he may file a motion to suppress Arthur Walker's statement to the FBI that he gave classified information to his brother for delivery to the Soviet Union.

In a television interview aired by the Christian Broadcasting Network, Mrs. Snyder said she had told her husband, Phillip Mark Snyder, that her father tried to lure her into the alleged spy ring.

House favors limiting budget for MX missiles

WASHINGTON (AP) — The House voted Tuesday to limit the MX nuclear missile program to only 40 weapons, setting up a confrontation with the Senate and the White House over the big land-based missile as part of the dispute surrounding this year's Pentagon budget.

In a series of votes on the new missile, the key tally was a 233-184 decision to limit overall deployment to 40 of the missiles, rather than the 100 weapons President Reagan originally wanted and the 50 Reagan reluctantly accepted after the Senate halved his request.

Arnold, who initiated the program, says that until males get involved with these problems, there will continue to be little real progress in the area of sex crimes.

Both Peterson and Pearson expressed satisfaction with their involvement in the program and being able to contribute in some way. "It's frustrating to be on the treatment end instead of the prevention end of the problem, but right now nobody is doing anything about it," Peterson said.

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Medical examiner says head injuries killed girl

FARMINGTON, Utah (AP) — State medical examiner Monique Ryser testified Tuesday in the manslaughter trial of a Kaysville mother that the woman's 5-year-old daughter died of one or more blows to the head.

Ryser testified on the second day of the trial of Beverly Stephenson, 38, in 2nd District Court. Stephenson is charged in the death of her adopted daughter, Kimberly Dawn Stephenson.

Ryser said the girl suffered multiple blows to the head 24 hours before her death at Primary Children's Hospital in Salt Lake City Dec. 18, 1984.

THE UNIVERSE

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Litigation, computerization worlds to merge soon in 4th District Court

By PAM PLIMPTON
Universe Staff Writer

The complex worlds of litigation and computerization will soon be merging in the 4th District Court.

According to Court Administrator Dan Price, \$20,000 of new Burroughs computer equipment will be installed in the courthouse within the next two weeks. The equipment is "long overdue," said Price, and should speed up the efficiency of a heavily burdened judicial system.

"There's several benefits we anticipate it will have," Price said. "It will allow us the capacity to store many forms and documents that are repetitively used in the court system."

Thus, the word processing capabilities of the equipment will permit court personnel to "improve their efficiency by freeing up a certain amount of their time to do other tasks that would otherwise be neglected," he said.

Price said the new computer terminals, all of which are being paid for with funds from the county budget, will be placed in each of the 4th District's four courtrooms.

Each of these terminals will be able to tap information from the county's main Burroughs computer. This interfacing capacity will eventually give the court access to vital information on the status of individual cases.

"One of the ultimate goals of computers in the courts is to develop a management information sys-

tem that will allow us to periodically measure the pace of both criminal and civil litigation," Price said. "Then we can track those cases which have been languishing in the system for an unreasonable length of time."

By actively keeping tabs on these slow-moving cases and urging them along, the court can do more than passively observe the problem of legal backlog and delay.

"We'll then be able to play a role in case disposition that we haven't been able to play" in the past, Price said.

In a television interview aired by the Christian Broadcasting Network, Mrs. Snyder said she had told her husband, Phillip Mark Snyder, that her father tried to lure her into the alleged spy ring.

Helping victims brings satisfaction

Fulfillment and heartache go hand in hand for BYU students involved in Provo's Center for Women and Children in Crisis.

There are a number of BYU students involved in the program, according to the Center's director, Rhonda Arnold, who said the program draws volunteers from all majors.

Vaughn Peterson, a senior from Provo majoring in psychology, got involved in the program after he saw an acquaintance wearing one of the center's papers and asked about it.

Peterson explained that when a call comes from a victim, a team of one female and one male counselor is dispatched immediately. The female member of the team attends to the personal needs of the vic-

tim. This includes sitting with the victim through the hospital examination, which can be a traumatic experience in itself.

The male member's responsibility is to counsel "significant others," Peterson said. This includes working with friends, roommates, husbands, or fathers of victims.

Male team member Lynn Pearson, a senior from Salt Lake City majoring in social work, explains his role as "getting a look on the feelings of those individuals closely associated with the victim, in order to access how much of a support system there will be for the victim."

This male involvement in rape and child molestation is unique to the Provo center's program.

ASBYU serves pancake breakfast

The "Flipping Pancake Breakfast" was the hot topic of discussion for 195 students and faculty members Tuesday morning. The ASBYU executive council literally served the student body a 50 cent breakfast in the checkerboard quad.

"This is a great idea because I enjoy the company and can eat in the sun, but one thing they need to have next time is bacon and orange juice," said Dan Bellingham, a senior from Michigan majoring in pre-med.

Orange juice was available when the breakfast began at 8 a.m., but it was gone quickly. "The early bird catches the worm," said Shelli Hill, Social Office vice president.

When asked what he thought about the executive council serving break-

fast to the students, Greg Hardester, a senior from Tremonton majoring in accounting, replied, "I didn't know they were 'serving' us. If they are, I think it's good."

Around 9:15 a.m. there were no more pancakes, and many waited till more batter was made. "We're having a good time by serving up some breakfast and that's why we lost track of the amount of batter that was left," said Lindsey Bennion, Public Communications vice president.

The breakfast was intended to help students enjoy the last day of classes.

"I'm curious why there are not more people here; there should be thousands," said Jeff Richardson, a mechanical engineering major from San Diego, Calif.



Members of the ASBYU executive council served pancakes to 195 students and faculty members on the checkerboard quad Tuesday.

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Scientists study possibilities of water as an energy source

Using water as an alternate source of power may well quench man's thirst for energy.

Employing a concept known as magnetic fusion, scientists are trying to harness hydrogen atoms from water to produce energy, said Ross Spencer, BYU assistant professor of physics.

"This process involves fusing atoms from heavy water together fast enough to produce energy, he said. "All you need is heavy water and 0.01 percent of this kind of hydrogen is found in sea water."

Spencer said the concept is interesting because there is so much fuel in the form of

heavy water.

He said if the experiment proves successful, a gallon of sea water will be equivalent to 300 gallons of gasoline.

Although it may seem the cheapest and most abundant energy source, magnetic fusion turns out to be an expensive fuel mainly because it is not cost effective, according to Spencer.

An extremely huge reactor, much larger than the Carl F. Eyring Science Center, is needed to house the experiment, and furthermore the reactor only lasts 10 years before it needs to be pulled down and buried, said Spencer. "It's a funny

fuel. The energy source is cheap but the match is very expensive.

"Even if magnetic fusion becomes available as a source of energy today, it will cost many times more than electrical energy, so it's probable that this power source will only be used when all other sources run out," he said.

"Commercial use of fusion is probably at least 40 years away unless something drastic happens," he said.

According to Spencer, fusion can be used to generate electricity, replace coal plants, nuclear plants and act as a heat source for steam driven power plants.



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Not all students gain extra weight while at school

by KAHALA MAHIKOA
niverse Staff Writer

When college students leave home they often find vending machines, peanut butter sandwiches and candy bars for their daily meals.

These types of meals have created the popular diet that all students gain weight when they go away to school. However, a nutrition survey conducted in fall 1984 by the Department of Food Science and Nutrition proved this theory false.

"According to Dr. Lora Beth Brown, assistant professor in the food science and nutrition department, vending machines are used about once a week. "They are not the disaster most people think they are," said Brown. Most of the vending machines contain milk machines, fruit, yogurt, ice, peanuts, and other nutritional snacks.

Recommended calories

Males and females each have a recommended number of calories they should have each day. Females should take in 2,000 calories, while males should have 2,600 calories to maintain proper weight, said Brown. The more active a person is the more calories they need to consume. People who gain weight easily and are consistent junk food eaters need to be more careful.

While some students rely on vending machine snacks, peanut butter sandwiches are an all-time favorite meal substitute.

When most college students are at home they don't eat as many peanut butter sandwiches as they do while in school. One of the reasons for this, according to Brown, is students are on their own and no one is there to say what must be eaten. Also, there is no motivation to prepare a standard meal. "It's easier to prepare a peanut butter sandwich than baking chicken," said Brown.

As candy bars and peanut butter sandwiches are satisfying hunger pains, soft drinks are a popular treat. "Advertisements have led people to think that eating and other activities are not fun unless you have a soft drink," said Brown.

Student weight gain

Not all students gain weight when they attend college, but there are basically three reasons why any of them do, according to Brown.

First, some student have the attitude, "I paid for it and I want my money's worth." Second, some students complete with each other — "you have a bigger salad than I do." Third, and most important, the fact that the food is available and served in big portions.

The nutrition survey conducted by the Department of Food Science and Nutrition showed 8 percent of the students thought they would gain weight if they ate 1,800 calories within the four six food groups and 71 percent thought they would maintain the same weight. "If you only eat 1,800 calories, you will lose weight," said Brown.

It doesn't hurt to go to the vending machines, or eat a candy bar as long as you are eating other nutritious meals. "Although this advice may seem a little worn out," said Brown, "eat the recommended daily allowance for the four food groups."

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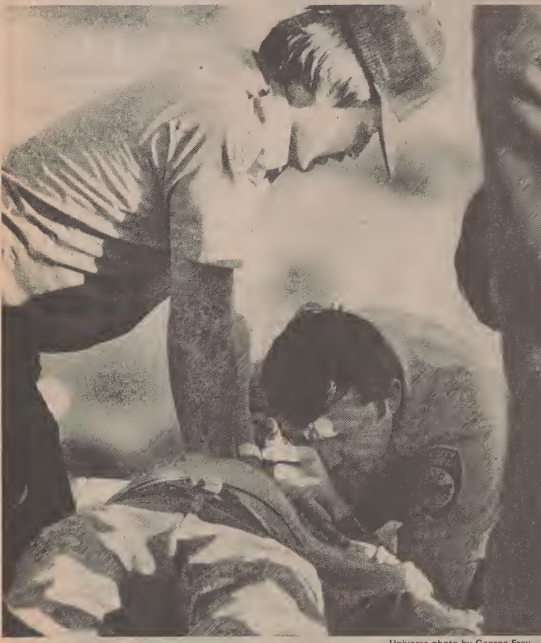


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Paramedics use technology and cooperation to save lives



Provo paramedics administered CPR to a local doctor when he suffered a heart attack in 1983 while walking his dog in the mountains above Provo. Constantly on call, paramedics' duties range from saving lives to speaking to students.

By EARL GOODWIN
Universe Staff Writer

High technology, teamed with highly trained, competent individuals, enables the Provo paramedic unit to take the hospital emergency room to the victim.

Often people are upset if the paramedics don't rush the person to the hospital immediately, according to Chuck Tandy, a Provo Fire Department paramedic. Unless it is a serious trauma situation, or immediate surgery is needed, it is often best to establish intravenous drip (Iv) and stabilize the individual before transporting him or her to the hospital, said Tandy.

The paramedic unit carries basically the same equipment and drugs found in an emergency room, the difference being that much of the equipment is designed for field use. The unit also carries specialized equipment, such as devices for extracting people from motor vehicles, he said.

Emergency-room doctors can communicate with the paramedics through a special telemetry unit, giving immediate instructions to the paramedics if needed. This also helps the doctors understand the patient's exact condition so they can prepare for specialized situations before the victim arrives at the hospital, Tandy said.

Prior skepticism

This kind of cooperation with paramedics wasn't always evident, according to paramedic John Higley. There was some skepticism among other medical professionals when paramedics were first introduced, Higley said. "Now we work as a team with the emergency room nurses and doctors."

Provo, which has two paramedic units and an ambulance service, wasn't always so well equipped. The city's first emergency service began in 1969 with an old panel truck, equipped with a stretcher and a crank resuscitator, according to Captain Dick Dunn of the Provo Fire Station Two.

"It was basically a scoop and haul service," he said.

The need for emergency medical aid has changed with population growth in Utah Valley. "We investigated about 1,500 medical calls last year," said Tandy, "everything from skinned knees to cardiac arrests."

The large area Provo paramedics must cover accounts, at least in part, for the high number of emergency calls responded to. Since they are the only paramedic units south of the Salt Lake Valley, they treat victims from Aspen Grove to Soldier Summit.

Both Higley and Tandy agree that the nature of the service which paramedics render and the demand for emergency medical aid make for a tough job. Provo paramedics alternate 24-hour work shifts with 48-hour breaks, for a total of 56 work hours per week. The paramedics are on call anytime of the day or night, according to Tandy. "It always seems like you are at work," he said.

Duties varied

A normal 24-hour shift consists of training, routine inspection, repair of equipment, giving talks at schools and checking fire hydrants. However, a shift can also consist of back-to-back emergency calls. "I think people still think all we do at the fire station is sit around and play checkers," Tandy said. "A while back we had someone from the personnel office decide he was going to ride with us for 24 hours to see what it was like. After the 16th call he was worn out and went home."

"I think what bothers me most is when I have to pull a child from an automobile accident whose life could have been saved by being strapped into a child car seat," said Tandy.

Emotions also run high if the paramedic knows the victim, which is a real possibility in a community such as Provo, Higley said. He related one experience when he responded to a fatal traffic accident that involved his sister. "Most of the time this profession is quite rewarding," Higley said, "but sometimes it stinks."

BYU alumni from across the entire nation invited to take part in telefest celebration

By MAUREEN DAHL
Universe Staff Writer

Loyal BYU fans all over the nation will have an opportunity to join in one of BYU's biggest activities during a 90-minute nationwide celebration.

The BYU Alumni Association is presenting a telefest to be broadcast on Oct. 18 to 180 stake centers throughout the United States and Canada. Sharlene Wells, Miss America 1985, will be among the distinguished hosts.

The telefest has a three-fold purpose, said Richard C. Cox, coordinator of alumni activities. It will commemorate the 110th anniversary of Founder's Day, involve alumni in a large-scale activity and "showcase the university and its accomplishments."

Although the Alumni Association has sponsored a number of basketball and football games through the satellite system, "BYU has never had anything like this before," said Cox.

"I don't know of any other university that's been able to do anything on this scope,

and certainly not involving as many alumni," he said. There is a potential involvement of 220,000 alumni.

The program will feature "a combination of live and taped segments, including a look at the university's campus life, sports highlights, performing groups, and nostalgic clips of past years. It will also feature distinguished campus personalities and alumni," he said.

Live segments include scenes of Salt Lake City, Provo, Washington, D.C., and San

Diego.

According to Cox, the broadcast will accomplish a long-time goal of the Alumni Association. "We've always wanted to have an activity that would involve all alumni simultaneously throughout the United States. This unique system of satellite transmission we have in the church makes this possible," he said.

The telefest is not a fund raising activity. "Everyone is invited," said Cox.

Utah Valley hospitals equipped to provide for large birth rate

By CARMA YEATES
Universe Staff Writer

One of Utah's largest natural resources that does not appear on any topographical map is babies. Fortunately, Utah Valley is prepared to meet the needs this resource demands.

At least 3,600 babies are born each year at Utah Valley Regional Medical Center alone, according to Jill Nielsen, head nurse of the Labor and Delivery section at UVRMC. Almost all of the third floor at UVRMC is dedicated to perinatal care. This floor includes 36 private rooms, 14 labor beds, 12 labor rooms, four delivery rooms and three birthing rooms.

Birthing rooms are becoming more and more popular. These rooms offer a larger, more homey atmosphere, and are designed to make the mother feel more comfortable.

"They're a real convenient way to go for everyone concerned," said Nielsen.

Approximately 300 babies are delivered at UVRMC per month, 200 in the delivery rooms and 100 in birthing rooms.

In a month with 30 days that comes to 10 babies a day.

Busiest months

The busiest months for deliveries at UVRMC are March and September, with December and January being the slowest times. "We've wondered about June weddings," said Nielsen.

UVRMC delivers more babies a month per capita than many other Utah hospitals. In comparison, Ogden's McKay Dee Hospital, which compares in size to UVRMC, delivers approximately 250 babies a month. St. Benedict's Hospital, also in Ogden, delivers close to 125. At Alta View Hospital the number ranges from 70-75 and Mountain View delivers approximately 90 babies per month. Orem Community and American Fork Hospitals both deliver 80 babies per month.

Healthy population

Although UVRMC delivers more babies per

month than these other hospitals, other statistics relating to births and mothers don't apply to this area because the conditions are different. There is less venereal disease and fewer malnourished mothers in this area, Nielsen said.

Another reason statistics differ is that most mothers who deliver at UVRMC are well informed and well educated.

"We see a young healthy population here," she said. "Most of the older mothers are on number seven or eight."

UVRMC used to deliver 550 to 600 babies per month, but with the construction of new hospitals and birthing centers in the area, that number has decreased.

"Right now it's comfortable," said Nielsen. "We're able to provide one-on-one care."

UVRMC averages 50 babies in its nursery at one time.

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New genealogy library will open in October

The new genealogical library of The Church of Jesus Christ of Latter-day Saints will open its doors to the public on Oct. 25, 1985.

The library, located at 85 N. West Temple in Salt Lake City, will replace the old facility housed in the west wing of the LDS Church Office Building. The library has been located here for the past 13 years. The present library will close Oct. 14 and its collection of books, microfilm, reading machines, and other equipment will be moved to the new building.

The new building, to be completed Oct. 1, has been designed specifically as a library, whereas the old building was converted to facilitate genealogical research, said Thomas E. Daniels, manager of public relations for the LDS genealogical department.

The new library is better organized, better planned and better designed, Daniels said. The facility will offer more space for genealogical workers, he added.

The new building will have a new lighting and air conditioning system that will not be as harsh on genealogical materials.

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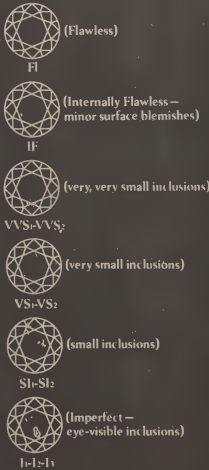
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LIFESTYLE

Y groups dance, sing on international tour



Members of The Dancers' Company, BYU's modern dance troupe, recently returned from their first international tour. The group performed this spring in Asia.

By DOUG TREGLEAGLE
Universe Staff Writer

BYU students shared their performance talents this spring and summer by singing and dancing in 22 different countries throughout the world, and they will complete the tour with a finale in Jordan. The students are all part of BYU's extensive touring program.

One hundred and sixty-nine students from five university organizations were selected for the 1985 tours after vigorous training and performance experiences.

The Dancers' Company, under the direction of Pat Debenham, demonstrated a repertoire of classical, abstract and humorous dances in Hong Kong, Korea, Japan and the Philippines. The group toured the Orient in May and was well received by the people of those countries.

International Folk Dancers founder Mary Bee Jensen is accompanying her students to Finland, Norway, Sweden and Denmark on her final director's tour. She has coordinated tours with the dance organization for 21 years. In 1984 her dancers clogged and whirled before more than 117,000 spectators. They delighted audiences whose traditional dances were performed by the ensemble. The group completed its tour June 3.

It is a nutritive sweetener made from amino acids and is such an intense sweetener that little is needed for a sweet taste. According to a sweetener fact sheet distributed by the Calorie Control Council (CCC), so little aspartame is needed for a sweet taste that the calories are minimal, and it is considered to be virtually non-caloric.

Nutrasweet is sweeter than sugar, but some find it difficult to swallow

By BECKY FARNSWORTH
Universe Staff Reporter

Diet colas, sugar-free chewing gums, and some sugar-free sweeteners now have a new, sweeter taste without a saccharin aftertaste. Many of these products now contain a new sweetener called "nutrasweet."

"Nutrasweet" is the trade name given by Searle Laboratories to aspartame.

It is a nutritive sweetener made from amino acids and is such an intense sweetener that little is needed for a sweet taste. According to a sweetener fact sheet distributed by the Calorie Control Council (CCC), so little aspartame is needed for a sweet taste that the calories are minimal, and it is considered to be virtually non-caloric.

It is 200 times sweeter than sucrose, and is digested as a protein. Aspartame is not recognized by the body as a sugar, and does not elicit an insulin response.

Aspartame's sugar-like taste enhances some flavors. "When it is combined with saccharin and/or cyclamate, they enhance each other so that the combinations are sweeter than the sum of the individual sweeteners," stated the CCC fact sheet.

However, as it pointed out, aspartame is unstable at prolonged high heat, and "is not suitable for baking, cooking or products which undergo heat sterilization."

Aspartame is used in beverages but does break down in liquids eventually. This breakdown can

ment often held by the minister of performing arts.

The Lamanite Generation, under the direction of Ron Simpson, went to the Southern United States at roughly the same time as the Folk Dancers. Their concerts focus on both traditional and modern cultural values of the ancient inhabitants of the Americas and Polynesia.

Ronald Stahel's new organization, The University Singers, embarked on its first international tour in May. Concerts took place in Russia, Poland, Hungary and Romania.

Jordan, Turkey and Greece were the stopping places for Young Ambassadors, led by Mark Huffman. They were on a six-week tour through June 6. A second group, under the direction of Randy Bothe, scheduled musical showpiece concerts in Massachusetts, Yugoslavia, Italy, France, Spain and Portugal and performed until June 11.

BYU also received a special request to perform at the Jerash Festival in Jordan in July. The invitation is one of three given to performing organizations in the United States. Selected students from the Young Ambassadors, the Ballroom Dance Team, the Dancers' Company and the Lamanite Generation will participate.

"We are pleased with the response we have had from show sponsors in all of the countries being visited," said Ed Bleser, director of the Office of Performance Scheduling. "Sponsors range from the Sputnik Youth Organization in the Soviet Union, to Tivoli Gardens in Denmark to the Haya Art Center in Jordan, and the city government in Hong Kong."

produce alcohol, and is the basis for some criticism. But Dr. Merrill J. Christensen, an assistant professor in food sciences at BYU, thinks the criticism is too severe.

"If someone bought a six-pack of diet cola containing aspartame and stored it on his shelf for six or eight months, and then drank the entire six-pack he would get as much alcohol from that as he could get in a tomato," said Christensen.

"Human studies have shown that large amounts of aspartame added to normal meals will increase blood plasma phenylalanine (an essential amino acid)," he said. Because of the increased phenylalanine, aspartame should not be used by persons with the genetic disorder phenylketonuria (PKU).

Christensen recommends that any time a person evaluates a nutrition claim, he should ask himself two questions. "First, ask if the claim is true," said Christensen. "Then, ask if the claim is significant."

The CCC said aspartame has been extensively studied in animals and humans over the past decade. "Studies provide strong evidence that consuming aspartame is no more hazardous than eating protein in the diet."

"Aspartame's amino components have been associated with potential toxicological effects," said the CCC, "but the FDA Commissioner has concluded that 'enormously large amounts of aspar-

tame would have to be consumed by a normal individual before reaching even a cautiously estimated toxic threshold."

The FDA approved aspartame in 1981 for use in tabletop sweeteners, various foods and dry beverage mixes and expanded its uses to include carbonated beverages and carbonated beverage syrup bases in July 1983.

Today it is used in tabletop sweeteners, instant coffee and tea, gelatins, puddings and fillings, dry beverage mixes, chewing gum and breakfast cereals.

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Diet fads provide loss, but on temporary scale

By KIMBERLY LEWIS
Universe Staff Writer

With the onset of bathing suit season, many ardent sun worshippers will be looking for the quick-way to eliminate undesirable pounds.

Weight loss aids abound in many stores to help make the shedding of pounds as pleasant as possible. Unfortunately, diet pills, diet candies and liquid diets provide only temporary weight loss. Once someone stops relying on these products, the tendency is to gain the weight previously lost and more.

Fluctuating weight caused by the constant use of these products can be dangerous and actually cause an internal change in the body that is not healthy, said Nora Nyland, registered dietitian and program director for Medical Dietetics.

One of the most easily accessible aids is the diet pill. Its major function is to curb hunger, therefore causing one to eat less and lose weight. Actually, these pills don't help people deal with real hunger when it does occur, said Nyland. Side effects, including irritability, high blood pressure and wide mood swings, can be numerous. The aids for weight loss can also be addictive, and many side effects speed one up with the addition of caffeine.

Diet candies popular

Dieters with a sweet tooth might prefer to use diet candies to help with weight control. These morsels serve different purposes according to the product one buys. Some are meant to be a meal substitute claiming to have all the necessary nutrients one would need.

Others contain methylcellulose which is a natural fiber that expands in the small intestines when eaten causing one to feel full. Unfortunately, this type of candy can cause discomfort and flatulence. Another's main function is to anesthetize the mouth — an experience not unlike visiting the dentist.

Liquid diets are one of the more popular ways to satisfy hunger. One of the main problems with these products, said Nyland, is that the psychological satisfaction of chewing is missing. She has found that students who have to drink their meals actually have hostile feelings about this practice.

Again this doesn't help people deal with real meal preparation. Unfortunately, none of these powdered meals are on the market long enough for their long-term effects to be studied.

Commercial advertisements on TV for diet products should be carefully scrutinized. The Food and Drug Administration only requires diet aid products to be honest on the actual package but not in advertising. Often commercials advertising diet

'Rambo' tops movie list with \$85 million total

HOLLYWOOD (AP) — "Rambo: First Blood Part 2" held the high ground for a fourth week at the box office while a new release, "Prizzi's Honor," starring Jack Nicholson and Kathleen Turner, opened strongly in fourth place. "Rambo," which had a total of \$85 million tucked under its ammo belt after the weekend, appears to be the first summer release with promise to top the \$100 million mark. "The Goonies" held the No. 2 spot after opening two weeks ago. The modern pirate adventure ran up \$8.2 million over the weekend in gross revenues from 1,705 theaters and reported a total of \$22 million. "Fletch," a Chevy Chase comedy about an investigative reporter, placed No. 3 in its third week. "Fletch" grossed \$5.2 million to bring its total to \$24.5 million.

products promising results are bogus. "All that sort of product does is make the manufacturer rich," Nyland said.

Habit change essential

For successful weight loss there are three key words: patience, moderation and consistency. To change one's eating habits one must "recognize that it's going to be uncomfortable because nothing about changing habits is easy," she said. People need to focus on what they can do, instead of on what they were doing, and substitute a behavior that's productive for one that's counter-productive.

If a person is looking for techniques to help with weight loss, behavior modification can be effective because it "takes the focus off of the food and puts it on your eating behavior," said Nyland. Behaviors such as putting your fork down between bites, and serving meals on smaller plates can be successful. Nyland lost two pounds in one week just using behavior modification alone.

"Sometimes we say to ourselves, 'when I lose weight, then I'll like myself.' But it needs to be the other way around — that you like yourself enough to stick with a weight-control program until you lose weight," she said. "Liking yourself shouldn't be connected with your weight. Find a few things that work for you."

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Rigid standards the rule at Liberty U

Goal is to be 'the BYU of religious schools'

By AURA LEE JOHNSON
Universe Staff Writer



BYU students may feel the honor code is strict, but at Liberty University students aren't even allowed to date until their junior year.

BYU students may complain about strict dress and grooming rules, the banning of Boy George albums and MTV, and the censorship of movies, but at Liberty University, in Lynchburg, Va., students aren't even allowed to listen to their choice of music.

According to a recent Washington Post story, no rock, disco, country, western or Christian rock music is played at Liberty and any tapes and records found are confiscated. Televisions are not allowed in the dormitories (though students may watch approved television programs in the lounge) and all movies on campus are edited to a G rating.

Dating regulated
Students are not allowed to single date until their junior year, and their identification is checked at the security gate. "Occupants of any vehicle leaving campus should be considered dating when both men and women are in the same vehicle," the article says. Also, students of both sexes are

not allowed alone in an academic building at night without staff supervision. Biweekly church attendance; daily room inspection and curfews are also part of the code of living for these students.

Liberty University, formerly known as Liberty Baptist College, was founded by evangelist Jerry Falwell in 1971. In the article, Falwell says his goal for the university is "to be the Harvard of academics, the Notre Dame of athletics, and the Brigham Young of religious schools to evangelical and fundamentalist boys and girls."

Though these rules seem rigid, students say some rules have been relaxed from earlier days, when only Disney movies were shown and interracial dating was banned.

"These rules go a little bit overboard," said BYU student Mike Ryan, a senior from Portales, N.M., majoring in public relations. "There are so many restrictions that it takes away free agency and becomes a dictatorship."

"I don't agree with some of their standards, such as the music and dating res-

trictions, but I do believe once you sign an honor code, you should abide by it," said Marlene Clark, a senior from Provo majoring in home economics education.

Criticism of rules
The problem with the rules at Liberty is the students are living by external means, Clark said. "We should be inwardly motivated; otherwise we are just living the letter of the law."

Though Scott Bruce, a junior from Butler, Ill., majoring in accounting, doesn't believe he could abide by the rules at Liberty University, he said there are benefits from living under strict guidelines. "It teaches you virtue, respect and to look for the good," he said. "Though you do lose a little bit of individuality."

BYU's standards are becoming more relaxed, which is good but it (the honor code) is still being broken a lot," Ryan said. "People should realize that our honor code is necessary to prepare us for the professional world. If you ever visited any other campus, such as the University of Utah, the students look very unprofessional."

Dairy Products Lab expands to meet an increased demand

By MARK BREWER
Senior Reporter

Growth and expansion at BYU and the Missionary Training Center in the last 10 years have increased the role of Food Services. Recent changes at the Dairy Products Lab are an example of university efforts to meet the growing demand in the cafeteria.

Ralph Johnson, manager of the Dairy Products Lab, said there has been a substantial increase in the last 10 years in the amount of dairy products sent to university cafeterias, the MTC and the Provo Temple. Such increase has necessitated additions to the DPL building as well as the great expense of state-of-the-art equipment.

Increased demand at BYU and the MTC for dairy products has also resulted in the expansion of BYU's dairy herd and facilities at the Spanish Fork Farm. The farm includes a milking herd of some 350 cows. It has increased over the years in proportion to the demand for dairy products on campus and at the MTC.

"We've added to our cooler and freezer space as well as new equipment," said Johnson. "Ten years ago we sold our milk in returnable glass bottles and sent 10-gallon stainless milk cans to the cafeterias. Now we package in cartons and plastic gallon jugs and send 5-gallon plastic bags to the cafeterias."

Johnson said besides the obvious reason of convenience, present packaging methods are which are sanitary. In today's food industry, cleanliness is a must to customer satisfaction, and customer satisfaction, he added, is the dairy's primary concern.

"We are continually trying to make a better product," said Johnson. "Consequently, we have to change as the industry changes."

Such changes don't often come easy. According to Johnson, the DPL is a little man in a big man's business. It doesn't produce nearly the volume large dairies do, and subsequently, can't always justify

"We are continually trying to make a better product. Consequently, we have to change as the industry changes."

— Ralph Johnson, Dairy Products Lab manager

the great expense of state-of-the-art equipment.

Improved facilities
"We have gradually upgraded our facilities and improved our technique," said Johnson. "Presently we are competitive with all dairies and our equipment is comparable in quality."

Frank Briscoe, supervisor of ice cream products, said BYU ice cream is of the highest quality in the area and one of the least expensive.

"Tests done in a BYU food science class showed BYU ice cream, in terms of butter fat content and cost, as the best buy in this area," said Briscoe.

Briscoe said he makes more than 30 flavors of ice cream and five sherberts. Vanilla is the biggest seller by at least a 2-1 margin.

Jim Barrett processes the milk at the DPL and said there is much care taken to assure quality control measures are followed.

"The first thing we do when we get here in the morning is to sanitize every line and tank in the building," said Barrett. "After everything is clean, we pump the milk in from the truck and pasteurize and homogenize it. Then it is sent to different stations to be packaged as whole, skim, 2 percent, chocolate or buttermilk, or made into a cultured dairy product."

Bruno Marberger, cultured products supervisor, said the cultured products require a special attention in order to have success. Bacteria is introduced into the

milk and feeds on the lactose to produce lactic acid. The lactic acid sets the milk and gives it body — a necessary quality in cheese, yogurt, cottage cheese and sour cream.

Lab's main purposes
As manager, Johnson said one of the main purposes of the DPL is to research and develop new products. "We will shortly begin the production of yogurt, and hope to introduce two new cheeses to our product line by the end of summer," he said. The DPL presently makes cheddar, colby and Monterey Jack cheeses.

Johnson said the DPL's efforts in research and development have greatly benefited from the assistance of Dr. Lynn Ogden of the Food Sciences Department. Ogden adds his expertise and knowledge to the staff in the research and development of new products, and the improvement of existing products.

One of the greatest concerns in the dairy industry today, according to Johnson, is to find a use for the whey left over after separation from the cheese curd.

"There is a lot of money being spent in the industry trying to keep the nutrients that escape from the cheese in the whey," said Johnson. "The other alternative is to find a use for the whey itself; it's high in sugars and proteins."

In addition to making a good product and improving and developing new products, Johnson said a major concern is to provide jobs and a healthy academic atmosphere through the DPL and Spanish Fork Farms.

Provides service, experience
"We are attempting to provide a service to the campus as well as enable the Animal and Food Science people to get some practical experience," said Johnson. "The facilities provide a good physical reference to the relevant issues in the industry."

BYU, according to Johnson, doesn't necessarily want to be the marketplace in competition with local businesses and does not try to market its goods outside of the BYU community except on rare occasions.

Computer programs help teach spelling

By NEIL BAIR
Senior Reporter

Improving one's ability to spell has long been a topic of research. Flashcards and spelling bees are some of the more common methods, but the advance of technology has added a more sophisticated dimension to spelling.

Ruel A. Allred, professor of elementary education at BYU, has researched the teaching of spelling for 25 years. He, along with several colleagues, has developed two nationally used spelling programs for computers.

One of the programs, called MICROSPELL, is now being used in schools throughout the country. The system is geared for grade levels two through eight, focusing on the individual student. The program also has voice capabilities, making it possible for the student to hear the correct pronunciation of a word, while simultaneously seeing the correct spelling on the computer screen.

Allred said the system is useful for children in public schools. "In the average sixth-grade classroom there is a 10-year range of spelling ability. With the system, the student can work at a level made for his own ability."

The other system, called AEC spelling, is currently available at retail stores for use in the home. The program was developed to teach spelling skills required to achieve success in school and life.

"The AEC system teaches the spelling of 97 percent of the vocabulary utilized by children and

adults," Allred said. The 97 percent represents 4,233 words most commonly used in writing.

Allred also added, "Although it (the program) was made for public school-age children, it has application for adults."

He said although the ability to correctly spell words is partly inherent, listening plays a big part in how well a person can spell.

"Auditory discrimination is very important," he said. "This means listening to a word and recognizing the symbols used for each sound."

Another important factor, he said, is the ability to memorize how a word is spelled, a trait more inherent than auditory discrimination.

"Visual memory is being researched, but right now we don't know how to teach this," he said.

Allred has authored the booklet titled "Spelling Trends, Content and Methods," and co-authored "The Computer in Education," with Marvin Tolman, associate professor of elementary education at BYU. These works were also printed in a series published by the National Education Association called "What Research Says to the Teacher."

It was through the information gathered by Allred and others that the computer systems were developed. The computer programs are published by American Educational Computer in Palo Alto.

Allred said the purpose of learning correct spelling is to help a person's ability to write. He said spelling and writing should be taught separately in public schools, but spelling should be incorporated into the writing process.

AT-A-GLANCE

All notices submitted for AT-A-GLANCE must be received by noon the day before publication. All items must be double-spaced and typed on an 8 1/2-by-11-inch sheet of paper. Items will not be published for more than three consecutive days and submissions of a commercial nature, or which advertise activities resulting in remuneration to anyone will not be accepted for publication.

CLUBNOTES

Clubnotes are published by The Universe on Wednesdays as a service to students. Information must come from the ASBYU Organizations Office. All Clubnotes must be in English and cannot exceed 25 words.

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Washington Seminar — How would you like to experience the excitement of working in the nation's capital? Then the Washington Seminar could be just the thing for you. Applications are still being accepted from people in all majors who wish to participate in the seminar during fall semester. Those interested in learning more information should contact the Washington Seminar office at 747 SWKT, Ext. 6029.

22, 8 p.m., JSB 179. There will be refreshments, games and a dance competition. Members free, non-members \$1.00.
Association of Science Fiction and Fantasy — Picnic Saturday! Meet in 130 TNRB at 11 a.m. Call Alea, 225-7218, for more information, and also to let us know if you are coming.

Scientists cancel Mount St. Helens eruption advisory

VANCOUVER, Wash. (AP) — The U.S. Geological Survey today canceled the eruption advisory for Mount St. Helens as scientists say the largest dome building episode since the volcano sprang to life five years ago has ended.

"This is the most lava that has been added to the dome in one single eruptive episode since the dome first appeared in October of 1980," said Steve Brantley, a USGS scientist at the Cascade Volcano Observatory.

Brantley said seismic levels have returned to background levels and the rate of dome swelling has dropped to low levels.

About 247 million cubic feet of material was added to the dome, pushing its south side out about 300 feet, Brantley said.

The dome, on the floor of the shattered volcano's crater, is still 800 feet high, but has grown to 3,000 feet in diameter.

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The 'retortable pouch' may be well on its way toward replacing cans

Canned food is a definite part of everyday life, but the "retortable pouch" is on its way to possibly replacing the familiar metal container.

The retortable pouch is a flexible package made of aluminum foil and other plastics that are laminated together. It was first developed for the space flight food systems.

"It's just like canned food," said Dr. Clayton Huber, a professor of food science and nutrition.

For seven years Huber worked for Technology, Inc., which had the contract with NASA to develop the food and packaging for manned space flights. He headed the research group for all the Apollo

flights, the Apollo-Soyuz docking mission and the Space Shuttle flight.

The pouch has two advantages over the can. The nutrient retention and quality of the food after a period of time may be better, and it takes less time to process with heat because penetration is faster because of the aluminum content of the bag.

"We're looking at the effect of using this package and other means of preserving food for nutrient retention," said Huber.

He said there are several companies interested in the use of the pouch, and some have produced it on a limited scale.

"In Europe and Japan there are quite a few foods available in this package," said Huber.

This type of packaging is considerably cheaper than cans because it is made of aluminum and has the potential to be recycled. But the pouch is not free of problems.

If the bag is flexed, there is a chance of making a pinhole in the package, so they are currently stored in separate cardboard containers. But researchers are working on a plastic overlay to cover several packages.

Also, the factory-line capacity for this type of packaging is a lot slower because they can't roll the way cans do.

"If it ever gets over that hurdle, then I think you're going to see a lot more of these packages being introduced," Huber said.

Utah Tech's rapid growth fuels expansion in Orem

By ANGIE KAY HOLLOWAY
Universe Staff Writer

Dedicated in 1977, the Orem campus of Utah Technical College has grown larger through the years. Since then, several buildings have been added to the campus, marking the college's considerable growth.

During the past five years, enrollment has more than doubled at UTC with the current figure reaching nearly 6,000 students per quarter. This growth has once again indicated a need for expansion on the Orem campus. By 1990, the enrollment at UTC is expected to double.

Currently, of those who are residents of Utah Valley 3 to 1 attend UTC over BYU. The difference is attributed to the costs, admission policy and programs offered at both BYU and UTC. The increase in enrollment at UTC has created a need for more buildings on campus.

Construction under way
Construction of a new, dual-purpose, Health Technology and Administration building is currently under way. Its projected completion date is January 1986.

ASBYU plans new ways to publicize its activities

In an effort to increase student awareness about campus activities, ASBYU has developed two new communications techniques.

Starting fall semester, students will be able to call 378-date "for a fun-filled weekend," said Lindsay Bennion, ASBYU public communications vice president.

This new hotline will be a useful service to students by providing information about all upcoming campus activities, said Chris Doughty, ASBYU president.

Also in the planning stage are campus advertisements on a local public

radio station. A local station has agreed to provide commercial time to ASBYU beginning Monday.

ASBYU public communications has planned to have a daily commercial spot for all upcoming activities. This spot will last 30-40 seconds and will be aired in the morning or afternoon.

"The program will help the students know what's happening on campus," said Dan Ashby, ASBYU executive assistant communications director.

"We're excited about the program because it's another means of reaching the students," he said.

Western states get \$15 million more to help fight against grasshoppers

WASHINGTON (AP) — An additional \$15 million in federal money will be made available on an emergency basis to help fight a severe infestation of grasshoppers in Western states, Agriculture Secretary John R. Block said Tuesday.

The \$15 million will supplement \$10 million announced on May 9 after members of Congress and many Western state officials sought federal aid against the grasshopper infestation.

"Hot and dry weather conditions throughout much of the West have

caused the infestation to be much larger than was initially projected," Block said in a statement.

"In order to meet this very serious threat to Western agriculture, I am taking the necessary steps to make additional federal funding available."

Under the program, USDA provides total funding for grasshopper control on federally owned rangeland, one-half on state-owned rangeland, and one-third on privately owned rangeland. The cost of the program will depend on weather conditions and participation by states and private landowners.

Book thieves try to sell texts back

By AUDREY GADZEKO
Universe Staff Writer

Textbook thefts are on the increase, and last April an alarming number of students tried to sell back stolen books to the BYU Bookstore, said Mike Foster, a textbook buyer for the bookstore.

"The biggest problem the textbook division of the BYU bookstore faces at the end of each semester is attempts by some students to sell back books that have been stolen from other students in the course of the term," said Foster.

"The bookstore, in cooperation with the University Police, have a hard time catching dishonest book dealers. They come up with all sorts of ingenious ways to sell stolen books," said Foster.

A number of precautions have been devised to detect and discourage people who try to sell stolen books.

Before a book is bought back by the bookstore, students must print their name on the book and go through an identification check, Foster said.

Students who have their property stolen are encouraged to file a report with University Police,

who then gives them a receipt which entitles them to go and inspect books that have been traded in at the bookstore, Foster said.

"If a student is able to identify a stolen book, the person who sold the book to the bookstore will have his or her name in it, and will therefore be dealt with by University Police."

In April about 17 students were able to identify books that they had lost in the course of the term, Foster said.

Unfortunately, some thieves manage to slip through the security checks at the bookstore. "It seems like where there's a will there's a way."

The good news, however, is that about 80 percent of the culprits are caught, Foster said.

Foster advises students to "take care of their books and not let them out of their sight. Once you decide to use a book make sure you have your name, student identification number and any other means of identification you can think of written in."

Most thefts, according to Foster, occur toward the end of a semester. "The testing center seems to be where most thefts occur," he added.

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